



PATENT
036870-5067-04

ortho-phthalaldehyde (OPA) derivitization, a reverse phase column, and fluorescence detection.

Fractions that were > 95% pure were combined to afford 97% pure compound **42** (10.3 g, 60% yield) as the TFA salt (approximate FW 910), that was identical to natural squalamine by anal.

HPLC (OPA method); ¹H NMR (CD₃OD, 400 MHZ): δ 4.12 (br q, 1H), 3.76 (br s, 1H), 3.2 - 2.9 (m, 9H), 2.1 - 1.0 (m, 33H), 0.94 - 0.90 (m, 9H), 0.84 (s, 3H), 0.67 (s, 3H); and ¹³C NMR (CD₃OD, 100 MHZ): δ 86.7, 68.4, 59.2, 57.7, 51.8, 46.8, 46.0, 43.9, 43.0, 41.2, 40.1, 38.7, 38.0, 37.8, 37.5, 37.0, 32.7, 32.2, 32.1, 29.5, 28.3, 26.1, 25.7, 24.7, 24.6, 24.3, 22.3, 19.6, 18.6, 18.3, 12.6, 11.7.

In describing the invention, applicant has stated certain theories in an effort to disclose how and why the invention works in the manner in which it works. These theories are set forth for informational purposes only. Applicants do not wish to be bound by any specific theory of operation.

While the invention has been described in terms of various specific preferred embodiments and specific examples, those skilled in the art will recognize that various changes and modifications can be made without departing from the spirit and scope of the invention, as defined in the appended claims.